

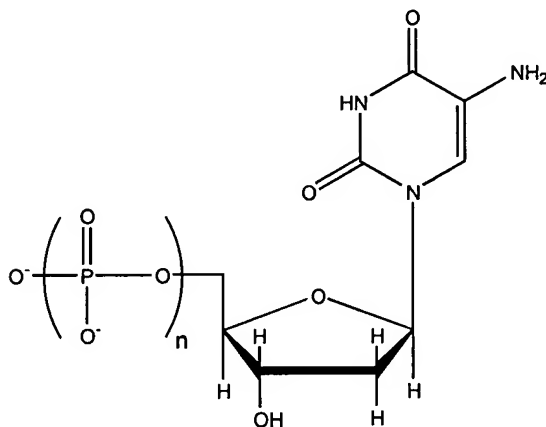
In the Claims

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

Please amend claims 4, 5, 7, and 31-33 as noted below.

1-3. (Canceled).

4. (Currently Amended) A method of synthesizing a ~~composition~~ compound, comprising:
providing a species comprising a nucleoside; and
reacting the species with a first compound to form a ~~composition~~ second
compound comprising a structure:

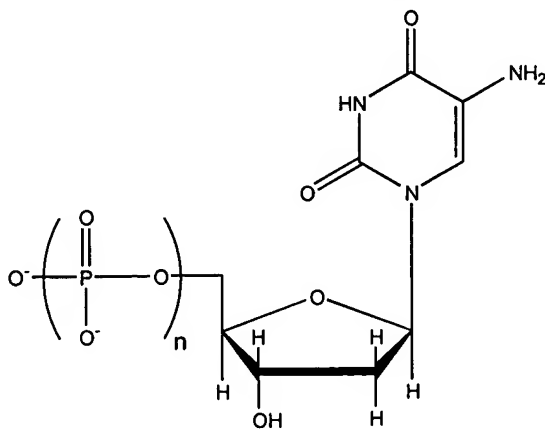


wherein n is at least 2.

5. (Currently Amended) The method of synthesizing a ~~composition~~ compound of claim 4, wherein the nucleoside comprises deoxyuridine.
6. (Canceled).
7. (Currently Amended) The method of synthesizing a ~~composition~~ compound of claim 4, wherein the nucleoside comprises 5-nitro-2'-deoxyuridine.

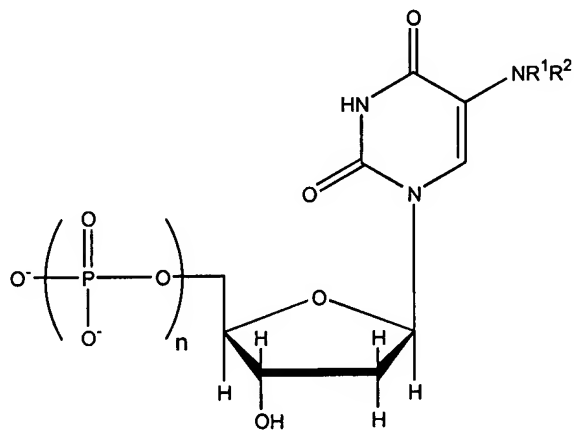
8-30. (Canceled).

31. (Currently Amended) A method of synthesizing ~~an amine~~ a nucleotide, comprising:
providing a ~~composition~~ first compound comprising a structure:



wherein n is at least 2; and

reacting the NH_2 group of the ~~composition~~ first compound with a second
compound to form ~~an amine~~ a nucleotide comprising a structure:



R^1 and R^2 each comprising an atom, wherein at least one of R^1 and R^2 comprises a carbon atom.

32. (Currently Amended) The method of synthesizing ~~an amine~~ a nucleotide of claim 31,
wherein at least one of R^1 and R^2 comprises a fluorescent entity.

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33. (Currently Amended) The method of synthesizing ~~an amine~~ a nucleotide of claim 31,
wherein at least one of R¹ and R² comprises a radioactive entity.

34-48. (Canceled).